

Rec'd PCT/PTO

25 APR 2005

10/5325U2

532502

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040224 A1

(51) International Patent Classification⁷: F28F 3/08,
9/00, F28D 9/00

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/SE2003/001686

(22) International Filing Date: 31 October 2003 (31.10.2003)

(25) Filing Language: English

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data:
0203214-2 1 November 2002 (01.11.2002) SE

Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only

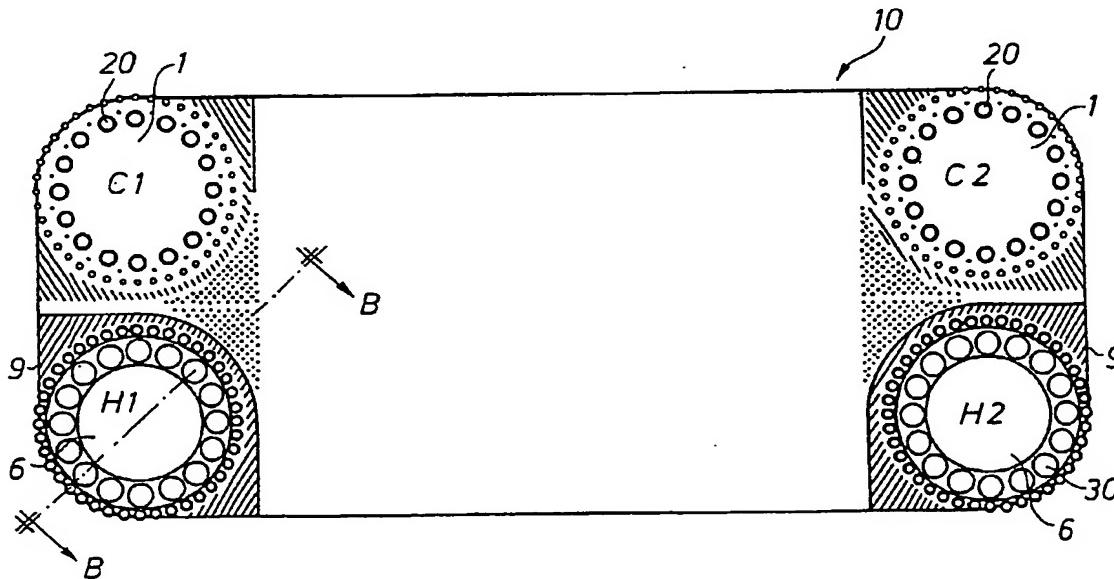
(71) Applicant (*for all designated States except US*): EP
TECHNOLOGY AB [SE/SE]; Hanögatan 5, S-211 24
Malmö (SE).

Published:
— with international search report

(72) Inventor; and
(75) Inventor/Applicant (*for US only*): PERSSON, Lars
[SE/SE]; Stora Östergatan 34, S-271 34 Ystad (SE).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEAT EXCHANGER WITH REINFORCEMENT MEANS



(57) Abstract: The present invention refers to a heat exchanger comprising plates (10) with a pattern of grooves and connections (1, 6) for inlets and outlets. The plates are placed in a pack and brazed so that separate channels for two media are formed between alternating pair of plates (10). According to the invention a set of holes (20) are arranged in the plates (10) around said connections (1, 6), and reinforcement means (30) are arranged through said holes (20). (Fig. 2)

WO 2004/040224 A1